

Cumulative Contents

Regular Section

Regular Papers

Hydroxyurea induces apoptosis and regular DNA fragmentation in a Burkitt's lymphoma cell line

C.A. Johnson, T.H. Forster, C.M. Winterford and D.J. Allan (Australia)

1

Inhibitors of protein and RNA synthesis block the cytotoxic effects of oxygenated sterols

P.L.H. Hwang (Singapore)

5

Identification of transglutaminase substrates in HT29 colon cancer cells: use of 5-(biotinamido)pentylamine as a transglutaminase-specific probe

K.N. Lee, M.D. Maxwell, M.K. Patterson, Jr., P.J. Birckbichler and E. Conway (USA)

12

Expression of chondroitin sulfate as a unique type of proteoglycan on the cell membrane of multipotential and committed hemopoietic progenitor cells

T. Shiota, J.J. Minguell and M. Tavassoli (USA)

17

Altered ganglioside composition in virally transformed rat embryo fibroblasts

H. Bai, J. Orlando and T.N. Seyfried (USA)

23

Monoclonal antibodies against defined epitopes of the human transferrin receptor cytoplasmic tail

S. White, K. Miller, C. Hopkins and I.S. Trowbridge (USA, UK)

28

Subsection

Minireview

A thousand and two protein tyrosine phosphatases

D.A. Pot and J.E. Dixon (USA)

35

Regular Papers

1,25-(OH)₂D₃ and 24,25-(OH)₂D₃ regulation of arachidonic acid turnover in chondrocyte cultures is cell maturation-specific and may involve direct effects on phospholipase A₂

L.D. Swain, Z. Schwartz and B.D. Boyan (USA, Israel)

45

Diphosphorylation of platelet myosin ex vivo in the initial phase of activation by thrombin

K. Itoh, T. Hara, F. Yamada and N. Shibata (Japan)

52

Glucose-induced activation of plasma membrane H⁺-ATPase in mutants of the yeast *Saccharomyces cerevisiae* affected in cAMP metabolism, cAMP-dependent protein phosphorylation and the initiation of glycolysis

J. Becher dos Passos, M. Vanhalewyn, R. Lopes Brandão, I.M. Castro, J.R. Nicoli and J.M. Thevelein (Belgium, Brazil)

57

Platelet-activating factor-mediated synthesis of prostaglandins in rat Kupffer cells

C.R. Gandhi, M.S. DeBuysere and M.S. Olson (USA)

68

Pathways for arachidonic acid mobilization in zymosan-stimulated mouse peritoneal macrophages

J. Balsinde, B. Fernández, J.A. Solís-Herruzo and E. Diez (Spain, USA)

75

The activation of inactive membrane-associated protein kinase C is associated with DMSO-induced erythroleukemia cell differentiation

B.R. Chakravarthy, R. Tremblay, P. Macdonald, V. Krsmanovic, J.F. Whitfield and J.P. Durkin (Canada, France)

83

Chick embryo heart cells with high and low intracellular calcium concentrations respond differently to ouabain

B. Ahlemeyer, H. Weintraut and W. Schoner (Germany)

91

Hormonal activation of the cGMP-inhibited low-K_m cyclic AMP phosphodiesterase of rat adipocytes from different sites: influence of ovariectomy

D. Lacasa, B. Agli and Y. Giudicelli (France)

99

Regular Section

Regular Papers

Comparative study of the effects of amphotericin B on the glucose metabolism in *Saccharomyces cerevisiae* in K⁺- and Na⁺-rich media

J. Wietzerbin, M. Herve, O. Lebourguais and S. Tran-Dinh (France)

105

- Increased hydrogen peroxide concentration in human tumor cells due to a nitroxide free radical
E.E. Voest, E. Van Faassen, B.S. Van Asbeck, J.P. Neijt and J.J.M. Marx (Netherlands) 113
- Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus
G.M. Castillo and D.M. Templeton (Canada) 119
- Ammonium chloride-induced acidification in renal TALH SVE.1 cells monitored by ^{31}P -NMR
I.R. Von Recklinghausen, R.K.H. Kinne and A.W.H. Jans (Germany) 129
- Abnormal accumulation and toxicity of polyamines in a difluoromethylornithine-resistant HTC cell variant
J.L.A. Mitchell, R.R. Diveley Jr., A. Bareyal-Leyser and J.L. Mitchell (USA) 136
- Expression of haptoglobin receptors in human hepatoma cells
M. Okuda, R. Tokunaga and S. Taketani (Japan) 143
- Guanine nucleotides stimulate carboxyl methylation of kidney cytosolic proteins
D. Gingras and R. Béliveau (Canada) 150
- Measurement of intracellular Ca^{2+} in young and old human erythrocytes using ^{19}F -NMR spectroscopy
N.R. Aiken, J.D. Satterlee and W.R. Galey (USA) 155
- Subsection**
- Regular Papers**
- Glucocorticoid stimulation of amnion cell prostaglandin synthesis: suppression by protein kinase C inhibitors and independence of phorbol ester-sensitive protein kinase C
T. Zakar, E.A. MacLeod and D.M. Olson (Canada) 161
- Sphingolipid metabolism and signal transduction: inhibition of in vitro phospholipase activity by sphingosine
R.C. Franson, L.K. Harris, S.S. Ghosh and M.D. Rosenthal (USA) 169
- Endothelin increases $[\text{Ca}^{2+}]_i$ in rat pancreatic acinar cells by intracellular release but fails to increase amylase secretion
D.I. Yule, G.T. Blevins Jr., A.C. Wagner and J.A. Williams (USA) 175
- Modulation of the activity of amino acid transport system L by phorbol esters and calmodulin antagonists in a human placental chorioncarcinoma cell line
S. Ramamoorthy, F.H. Leibach, V.B. Mahesh and V. Ganapathy (USA) 181
- Exo-protein kinase release from intact cultured aortic endothelial cells
M. Hartmann and J. Schrader (Germany) 189
- Poly(ADPR)polymerase expression and activity during proliferation and differentiation of rat astrocyte and neuronal cultures
M.G. Chabert, C.P. Niedergang, F. Hog, M. Partisani and P. Mandel (France) 196
- Cell-free phosphorylation of the murine small heat-shock protein hsp25 by an endogenous kinase from Ehrlich ascites tumor cells
R. Benndorf, K. Hayeß, J. Stahl and H. Bielka (Germany) 203
- cAMP-dependent protein kinases in the rat testis: regulatory and catalytic subunit associations
J. Weiss, D.A. DeManno, R.E. Cutler Jr., E.J. Brooks, J. Erlichman, B.D. Sanwal and M. Hunzicker-Dunn (USA, Canada) 208
- Rapid Report**
- Amylin inhibits insulin-stimulated glucose uptake in C_2C_{12} muscle cell line through a cholera-toxin-sensitive mechanism
S. Sheriff, J.E. Fischer and A. Balasubramaniam (USA) 219
- Regular Section**
- Regular Papers**
- Operation and energy dependence of the reducing-equivalent shuttles during lactate metabolism by isolated hepatocytes
M.N. Berry, J.W. Phillips, R.B. Gregory, A.R. Grivell and P.G. Wallace (Australia) 223
- Growth of human cultured cells exposed to a non-homogeneous static magnetic field generated by Sm-Co magnets
K. Sato, H. Yamaguchi, H. Miyamoto and Y. Kinouchi (Japan) 231
- Electron paramagnetic resonance studies on cytochrome *b*-558 and peroxidases of pig blood granulocytes
H. Fujii and K. Kakinuma (Japan) 239
- Mechanism for endothelial cell injury induced by 15-hydroperoxyeicosatetraenoic acid, an arachidonate lipoxygenase product
H. Ochi, I. Morita and S.-i. Murota (Japan) 247
- Cell-surface changes induced by ectopic expression of the murine homeobox gene *Hox-3.3*
S.M. Shimeld and P.T. Sharpe (UK) 253
- Mechanisms for plasma-mediated activation of human blood cell aldehyde dehydrogenase
A. Helander and A. Gogoll (Sweden) 259

- Cholecystokinin-induced changes in polysome structure regulate protein synthesis in pancreas
P.S. Perkins and S.J. Pandol (USA) 265
- Response of a human megakaryocytic cell line to thrombin: Increase in intracellular free calcium and mitogen release
C.L.A. Jones, D.P. Witte, M.J. Feller, D.A. Fugman, G.W. Dorn II and M.A. Lieberman (USA) 272

Subsection

Regular Papers

- Characterization of ATP receptor which mediates norepinephrine release in PC12 cells
M.A. Majid, F. Okajima and Y. Kondo (Japan) 283
- Guanine nucleotide regulatory protein levels and function in spontaneously hypertensive rat vascular smooth-muscle cells
C.J. Clark, G. Milligan, A.R. McLellan and J.M.C. Connell (UK) 290
- A human osteoblastic cell line, MG-63, produces two molecular types of macrophage-colony-stimulating factor
T. Ohtsuki, S. Suzu, N. Nagata and K. Motoyoshi (Japan) 297
- Differential regulation of glucose transporter isoforms by thyroid hormone in rat heart
S.P. Weinstein and R.S. Haber (USA) 302
- Angiotensin II and active phorbol esters induce proto-oncogene expression in isolated rat hepatocytes
C. González-Espinosa and J.A. García-Sáinz (México) 309
- Gangliosides inhibit platelet-derived growth-factor-stimulated increases in intracellular calcium in Swiss 3T3 cells
Z. Guan, B.T. Stokes, J. Van Brocklyn and A.J. Yates (USA) 315
- Detergent sensitivity of the tonoplast H⁺-ATPase and its purification from *Beta vulgaris*
C.M. Ellis, R.C. Ford and A. Holzenburg (UK) 319
- Cumulative Contents 327
- Author Index 330